

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S120	1	"6614443".pn.	USPAT	OR	OFF	2006/08/02 13:53
S119	163	("345"/\$.ccls. or "382"/\$.ccls. or "355"/\$.ccls. or "358"/\$.ccls.) and (sampl\$3 same ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:16
S118	10	(S105) and (sampl\$3 same ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:14
S117	18	(S103 or S104) and (sampl\$3 same ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:14
S113	40	(S103 or S104) and (sampl\$3 and ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:05
S116	6	(S109 or S110 or S111) and (sampl\$3 same ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:02
S115	20	(S109 or S110 or S111) and (sampl\$3 and ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:02
S114	15	(S105) and (sampl\$3 and ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:02
S112	1	(S109 or S110 or S111) and ((pattern near5 sampl\$3) and ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:02
S111	210	382/269.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:01
S110	228	382/268.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:01
S109	782	382/266.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:01

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S10 8	6	(S105) and ((pattern near5 sampl\$3) and ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:01
S10 6	6	(S103 or S104) and ((pattern near5 sampl\$3) and ((line near5 (orientation or class\$2)) or ("X-major" or "X major"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 09:01
S10 5	172	345/613.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 08:50
S10 4	416	345/443.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 08:45
S10 3	470	345/611.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 08:45
S10 2	1	o'driscoll-gerard.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 08:45
S10 0	1	odriscoll-gerard.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 08:44
S79	1	odriscoll-gerard.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/02 08:43

Terms used [line](#) [antialias](#) [sample pattern](#) [orientation](#) [x major](#) [x major](#)

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### 1 [Combining edges and points for interactive high-quality rendering](#)



Kavita Bala, Bruce Walter, Donald P. Greenberg

July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(4.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new interactive rendering and display technique for complex scenes with expensive shading, such as global illumination. Our approach combines sparsely sampled shading (points) and analytically computed discontinuities (edges) to interactively generate high-quality images. The *edge-and-point* image is a new compact representation that combines edges and points such that fast, table-driven interpolation of pixel shading from nearby point samples is possible, while respo ...

**Keywords:** interactive software rendering, silhouette and shadow edges, sparse sampling and reconstruction

### 2 [Compressed multisampling for efficient hardware edge antialiasing](#)

Philippe Beaudoin, Pierre Poulin

May 2004 **Proceedings of the 2004 conference on Graphics interface GI '04**

**Publisher:** Canadian Human-Computer Communications Society

Full text available:  [pdf\(478.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Today's hardware graphics accelerators incorporate techniques to antialias edges and minimize geometry-related sampling artifacts. Two such techniques, brute force supersampling and multisampling, increase the sampling rate by rasterizing the triangles in a larger antialiasing buffer that is then filtered down to the size of the framebuffer. The sampling rate is proportional to the number of subsamples in the antialiasing buffer and, when no compression is used, to the memory it occupies. In tur ...

**Keywords:** edge antialiasing, graphics hardware, multisampling

### 3 [Generating antialiased images at low sampling densities](#)



Don P. Mitchell

August 1987 **ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques SIGGRAPH '87**, Volume 21 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(2.64 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

Ray tracing produces point samples of an image from a 3-D model. Constructing an antialiased digital picture from point samples is difficult without resorting to extremely high sampling densities. This paper describes a program that focuses on that problem.

While it is impossible to eliminate aliasing totally, it has been shown that nonuniform sampling yields aliasing that is less conspicuous to the observer. An algorithm is presented for fast generation of nonuniform sampling patterns that are ...

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Terms used

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### 1 Prefiltered antialiased lines using half-plane distance functions



Robert McNamara, Joel McCormack, Norman P. Jouppi

August 2000 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardware**

Publisher: ACM Press

Full text available: pdf(2.53 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a method to compute high-quality antialiased lines by adding a modest amount of hardware to a fragment generator based upon half-plane edge functions. (A fragment contains the information needed to paint one pixel of a line or a polygon.) We surround an antialiased line with four edge functions to create a long, thin, rectangle. We scale the edge functions so that they compute signed distances from the four edges. At each fragment within the antialiased line, the four distances ...

**Keywords:** atialiasing, graphics accelerators, prefiltering

### 2 High speed high quality antialiased vector generation



Anthony C. Barkans

September 1990 **ACM SIGGRAPH Computer Graphics , Proceedings of the 17th annual conference on Computer graphics and interactive techniques SIGGRAPH '90**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(2.87 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

A vector generation method is described in which a high quality image rendering scheme is coupled with a high speed scan-conversion algorithm. The rendering scheme consists of two parts. First a prefiltering method is used to antialias the vectors. Second a compositing technique is used to compose the vectors into the frame-buffer. The scan-conversion algorithm presented allows a single vector to be scan-converted by either by a single processor or a set of processors running in parallel. When u ...

### 3 Hardware accelerated rendering of antialiasing using a modified a-buffer algorithm



Stephanie Winner, Mike Kelley, Brent Pease, Bill Rivard, Alex Yen

August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(113.06 KB)

Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

**Keywords:** antialiasing, image partitioning, plane equation evaluation, scanline, texture mapping, transparency

#### 4 Combining edges and points for interactive high-quality rendering



Kavita Bala, Bruce Walter, Donald P. Greenberg

July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(4.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new interactive rendering and display technique for complex scenes with expensive shading, such as global illumination. Our approach combines sparsely sampled shading (points) and analytically computed discontinuities (edges) to interactively generate high-quality images. The *edge-and-point* image is a new compact representation that combines edges and points such that fast, table-driven interpolation of pixel shading from nearby point samples is possible, while respo ...

**Keywords:** interactive software rendering, silhouette and shadow edges, sparse sampling and reconstruction

#### 5 An interactive introduction to OpenGL programming



Dave Shreiner, Ed Angel, Vicki Shreiner

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes**

**SIGGRAPH '04**

**Publisher:** ACM Press

Full text available:  [pdf\(3.35 MB\)](#) Additional Information: [full citation](#), [abstract](#)

"An Interactive Introduction to OpenGL Programming" provides an overview of the OpenGL Application Programming Interface (API), a library of subroutines for drawing three-dimensional objects and images on a computer. After the completion of the course, a programmer able to write simple programs in the "C" language will be able to create an OpenGL application that has moving 3D objects that look like they are being lit by lights in the scene and by specifying colors or images that should be used ...

#### 6 An efficient antialiasing technique



Xiaolin Wu

July 1991 **ACM SIGGRAPH Computer Graphics , Proceedings of the 18th annual conference on Computer graphics and interactive techniques SIGGRAPH '91**, Volume 25 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

An intuitive concept of antialiasing is developed into very efficient antialiased line and circle generators that require even less amount of integer arithmetic than Bresenham's line and circle algorithms. Unlike its predecessors, the new antialiasing technique is derived in spatial domain (raster plane) under a subjectively meaningful error measure to preserve the dynamics of curve and object boundaries. A formal analysis of the new antialiasing technique in frequency domain is also conducted. ...

**Keywords:** antialiasing, convolution, curve digitization, digital geometry


#### 7 Compressed multisampling for efficient hardware edge antialiasing



Philippe Beaudoin, Pierre Poulin

May 2004 **Proceedings of the 2004 conference on Graphics interface GI '04**

**Publisher:** Canadian Human-Computer Communications Society

Full text available:  [pdf\(478.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Today's hardware graphics accelerators incorporate techniques to antialias edges and minimize geometry-related sampling artifacts. Two such techniques, brute force supersampling and multisampling, increase the sampling rate by rasterizing the triangles in a larger antialiasing buffer that is then filtered down to the size of the framebuffer. The sampling rate is proportional to the number of subsamples in the antialiasing buffer and, when no compression is used, to the memory it occupies. In tur ...



**Keywords:** edge antialiasing, graphics hardware, multisampling

8 Stochastic sampling in computer graphics



Robert L. Cook

January 1986 **ACM Transactions on Graphics (TOG)**, Volume 5 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(4.08 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Ray tracing, ray casting, and other forms of point sampling are important techniques in computer graphics, but their usefulness has been undermined by aliasing artifacts. In this paper it is shown that these artifacts are not an inherent part of point sampling, but a consequence of using regularly spaced samples. If the samples occur at appropriate nonuniformly spaced locations, frequencies above the Nyquist limit do not alias, but instead appear as noise of the correct average intensity. T ...

9 The Reyes image rendering architecture



Robert L. Cook, Loren Carpenter, Edwin Catmull

August 1987 **ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques SIGGRAPH '87**, Volume 21 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(944.35 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An architecture is presented for fast high-quality rendering of complex images. All objects are reduced to common world-space geometric entities called micropolygons, and all of the shading and visibility calculations operate on these micropolygons. Each type of calculation is performed in a coordinate system that is natural for that type of calculation. Micropolygons are created and textured in the local coordinate system of the object, with the result that texture filtering is simplified and im ...

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Li, Z.-X.; Levy, M.; Sarma, B.K.; Salem-Sugui, S., Jr.; Shi, D.; Crabtree, G.W.;  
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Bradley, A.D.; Doyle, R.A.; Charalambous, D.; Lo, W.; Cardwell, D.A.; Campbell, A.M.; Vanderbenden, P.;  
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Teng, E.; Ballard, N.;  
Magnetics, IEEE Transactions on  
Volume 22, Issue 5, Sep 1986 Page(s):579 - 581  
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IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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